

GC362-2

Esterase Enzymes, DNA Encoding Esterase
Enzymes and Vectors and Host Cells
Incorporating Same
Borneman et al.
SN# 09/981,430
Docket No. GC362-2D1

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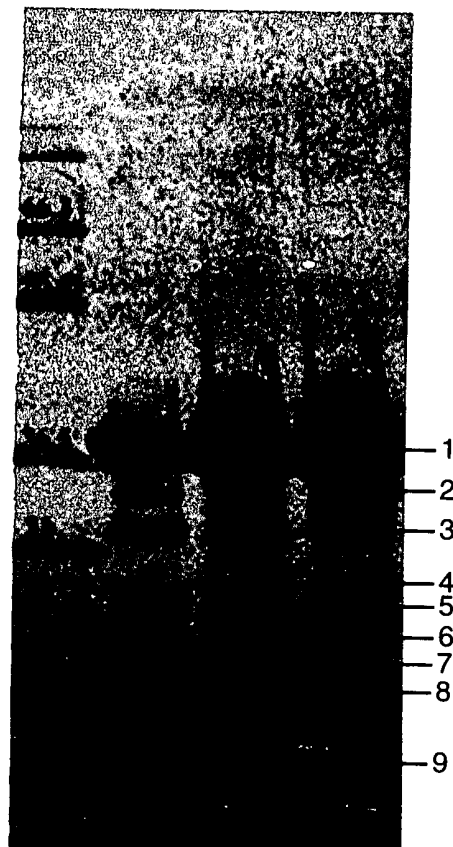


FIG._1

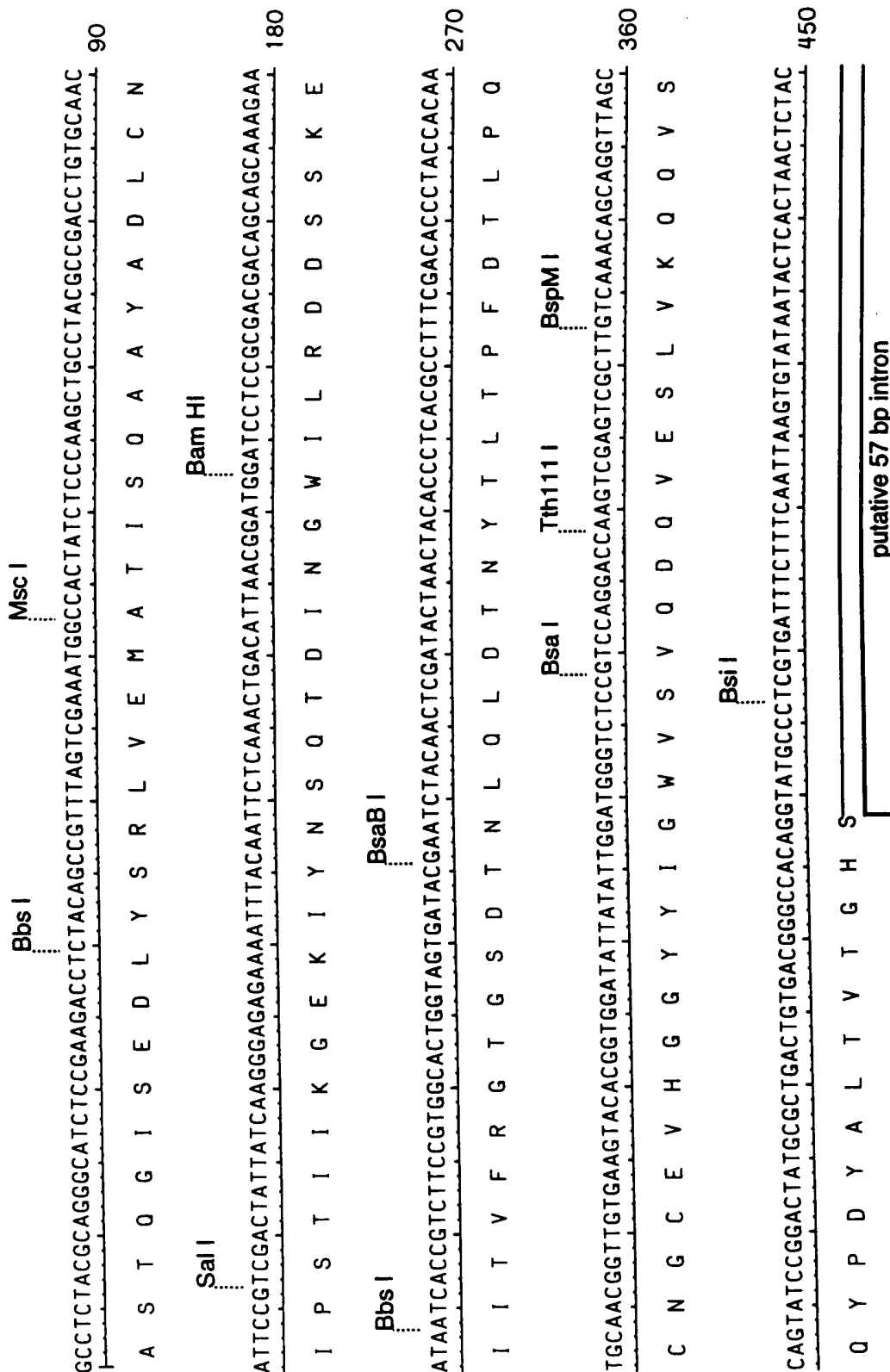
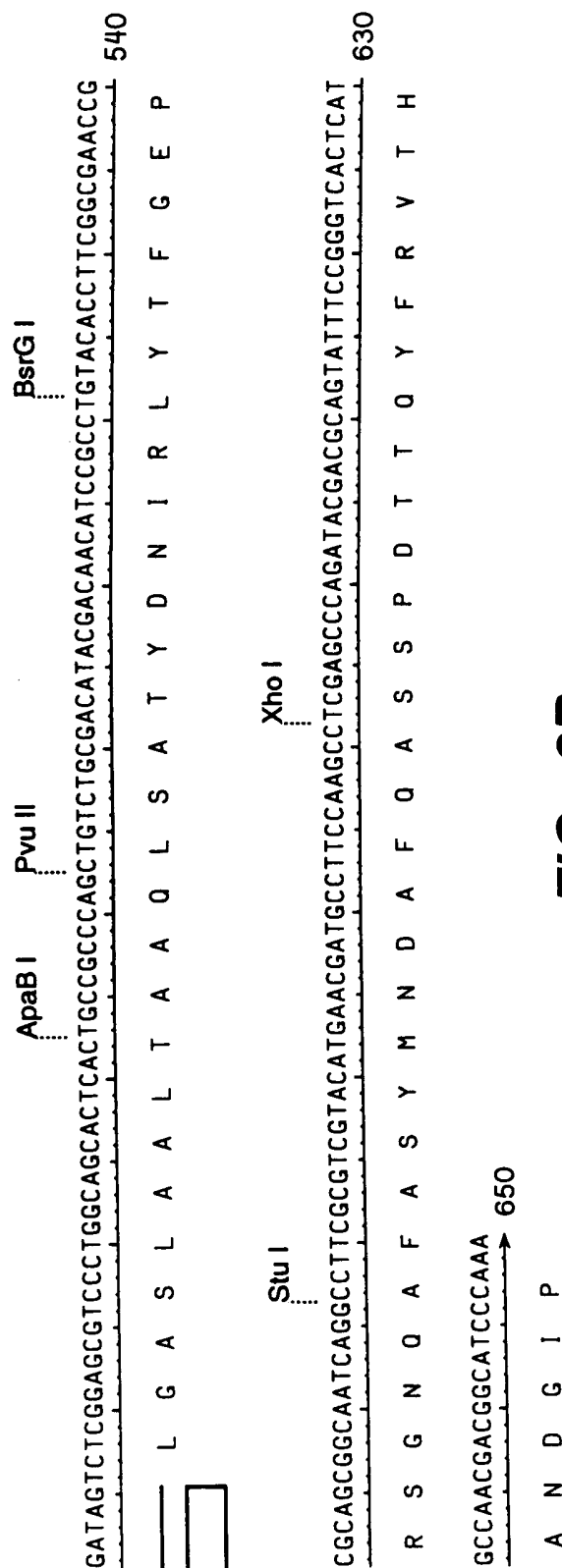
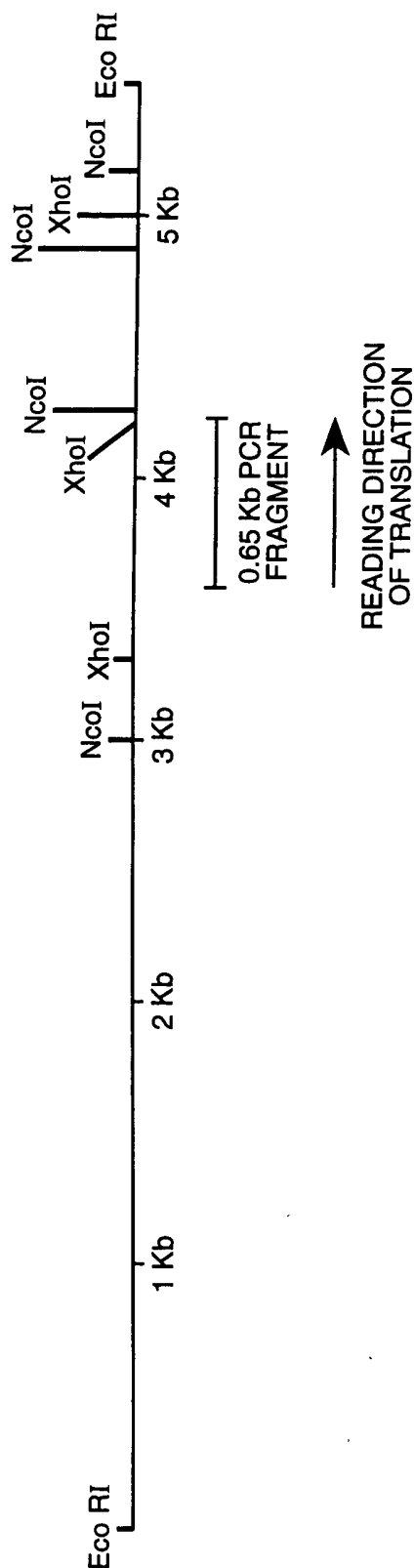


FIG..2A



**FIG.-3**

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FIG. 4A

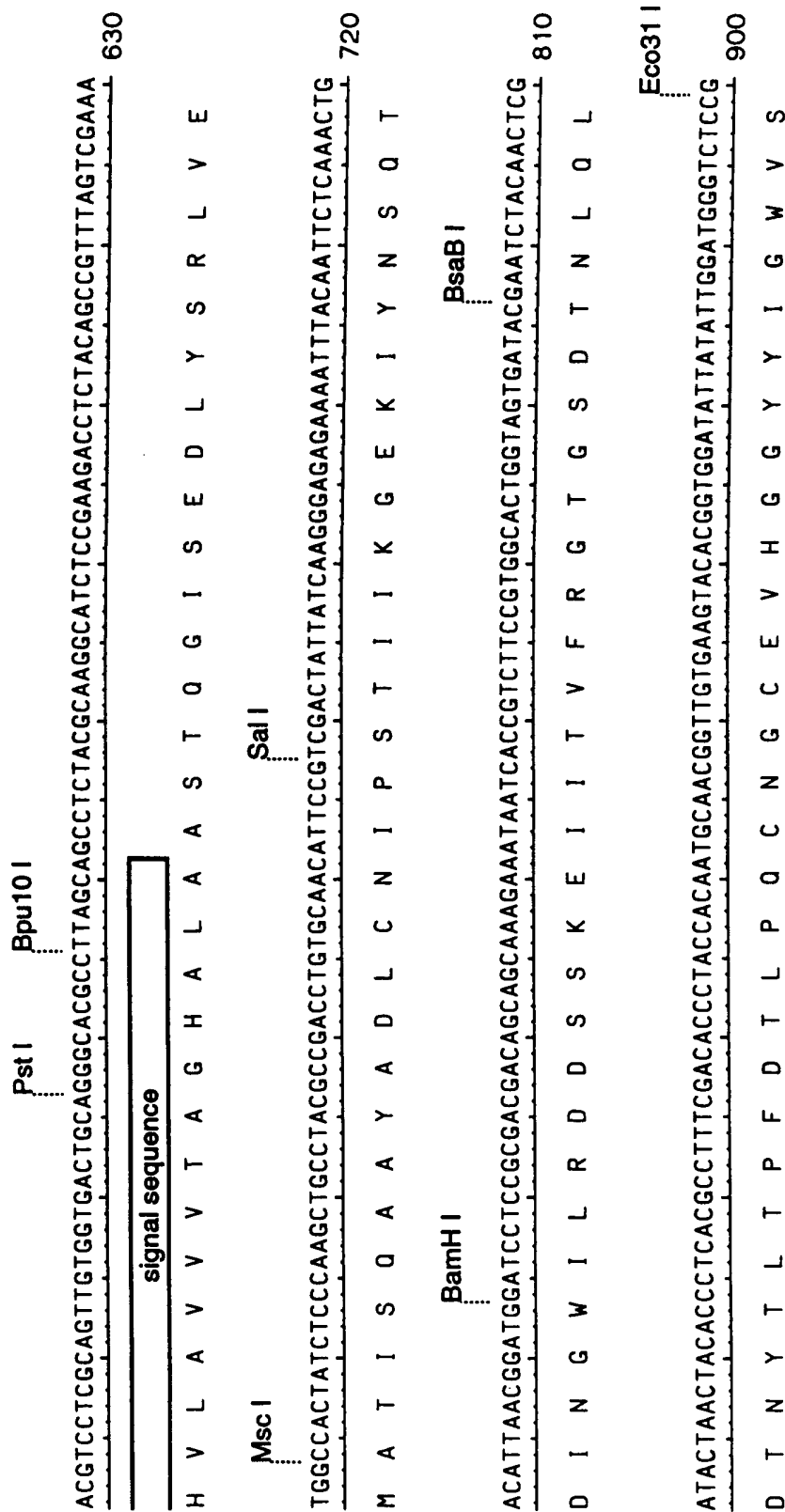


FIG._4B

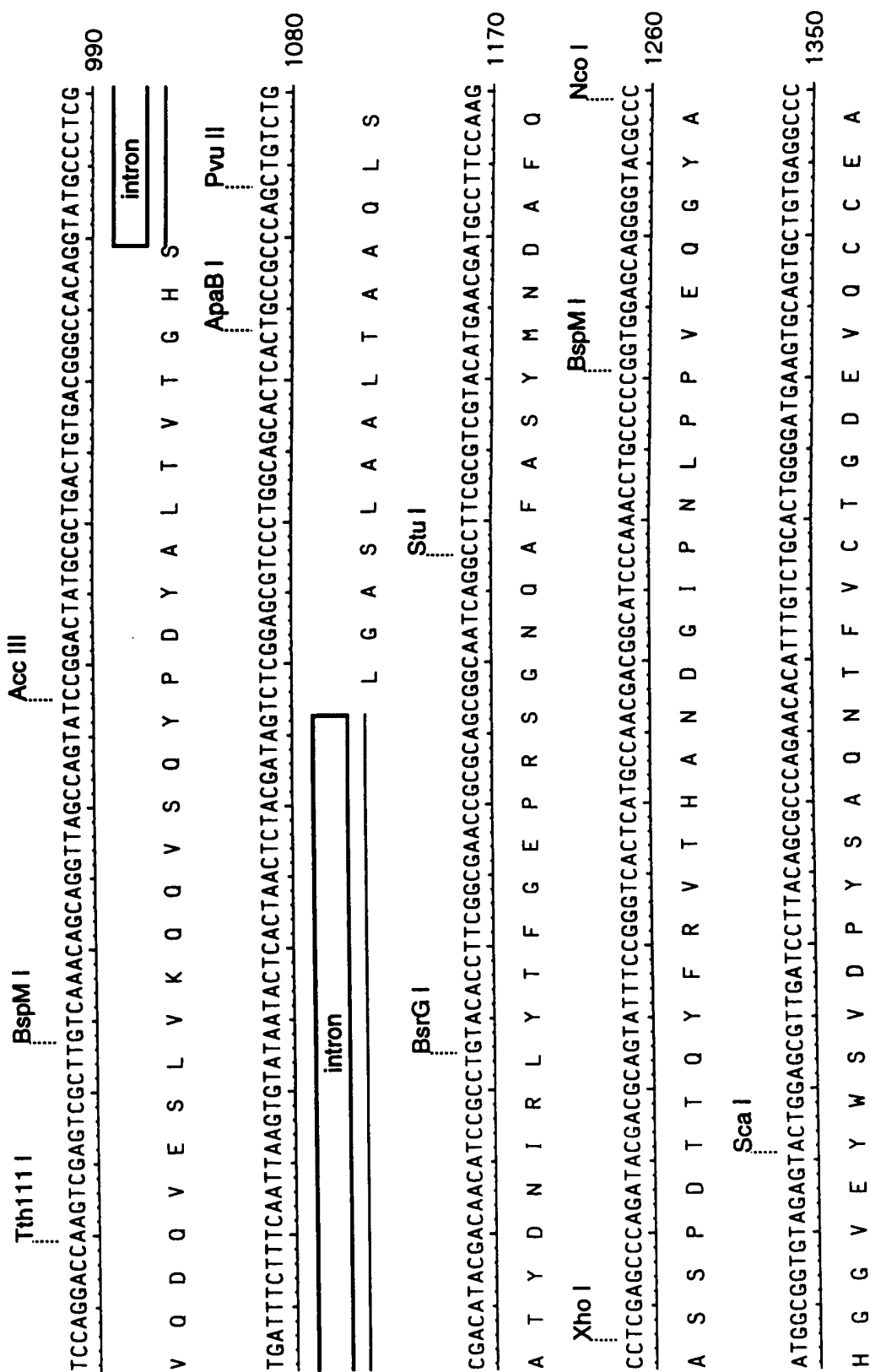


FIG._4C

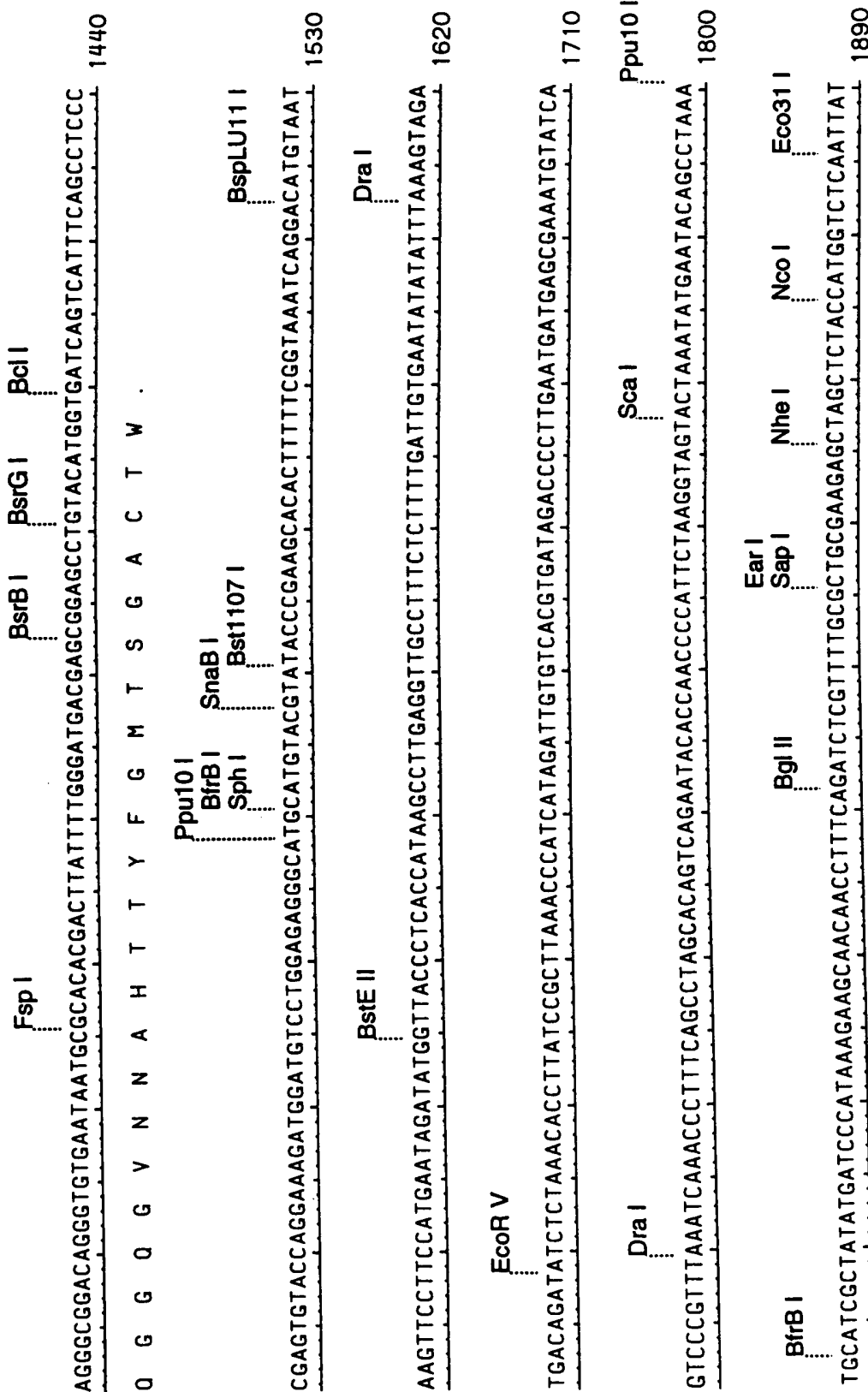


FIG._4D

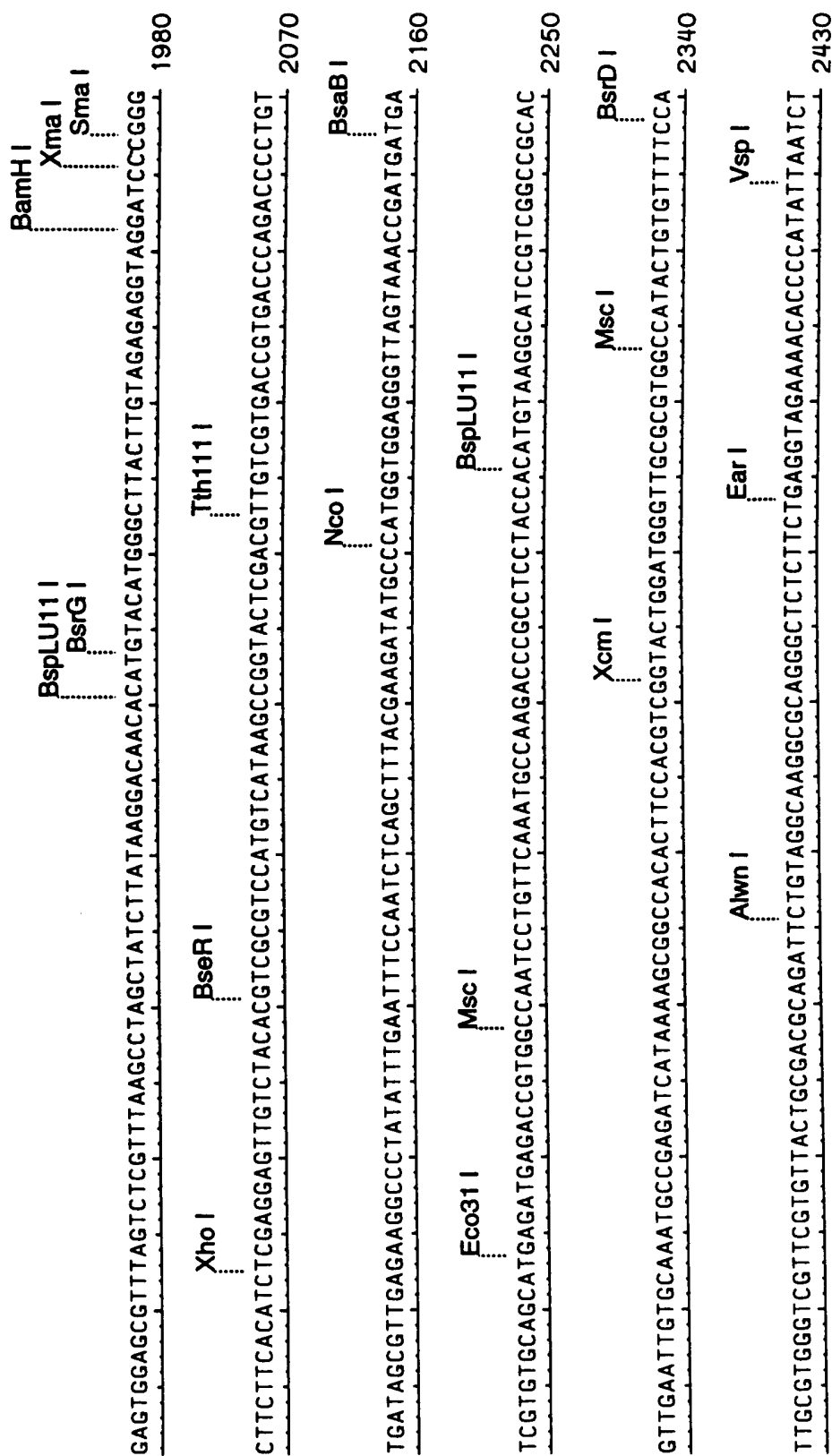


FIG. 4E

CCATGGTGGTCCGATATATCGGCAGTAGTCTTTGCCGAAACGTTGAGGGTTACAGTGATCTGCGTCGGACATACTT
CCGGGAAATCTACGGCGGAATATCAAAGTCTTCGGAATATCCATATTGGAAAGGACAGAAAGCTCCGGGGTAGTTT
GATAGATGAGCTCCGGTGATTAAATCGGAGCTGACAGGAGTGAGCGTCACTGTAGACCATCTAGTAATGTCAGT
CCGGCGCAATTTCGCACATGAACAAGTTGATTTCCGGACCCCATTTGTACATCTCTCGGCTACAGCTCGAGATG
TGCTCGCGAGTATACCTAGAAGCCATGCCAGCGTGTGTTATACGACCAAAAGTCAGGAAATATGAAAACGATCG
TCGGATATTCTTGTTTATCTTAATTCCTAAATTAGTCTTCAGTGGTTATTTAAGAGATAGATCCCTTCACAAACACT
CATCCAAACGGACTTCTCATACCACTCATTTGACATAATTTCAAACAGCTCCAGGCGCAATTAGTTCAACATGAAGC
AAATTCTCCGCCAAACACGCTCCCGAGTTGTGGTGACTGCAAGGCACGCTTAGCAGCTCTACGCAAGGCATCT
CCGAAGACCTCTACAGCCGTTTAGTCGAAATGGCCACTATCTCCAGCTGCCCTACGCCGACCTGTGCAACATTC
CGTCGACTATTATCAAGGAGAGAAATTTACAATCTCAAACTGACATTAAACGGATGGATCCTCCGCGACGACA
GCAGCAAGAAATAATCACCGCTTCCGTGGCACTGGTAGTGATACGAAATCTACAACCTCGATACATACTACACCC
TACAGCCTTTCGACACCCATCACCAATGCAACGGTTGTGAAGTACACGGTGGATATATATTGGATGGGTCTCCG
TCCAGGACCAAGTCGAGTCGCTTGTCAAACAGCAGGTTAGCCAGTATCCGGACTATGCCGTGACTGTGACGGGCC
ACAGGTATGCCCTCGTGATTTCTTCAAATTAAGTGATAATACTCACTAACTCTACGATAGTCTCGGAGCGTCCC
TGCGAGCACTACTCGCCCCAGCTGTCTGCGACATACGACAACATCCGCCCTGTACACCTTCGGCGAAACCGCGCA
GGCGCAATCAGGCTTCGGTGTGATGAAAGATGCCCTTCCAAACCTGCCCGGTGGAGCAGGGTACGCCATGGCGGTGATAGT
GGGTCACTCATGCCAACGACGCAATCCAAACCTGCCCGGTGGAGCAAGGATGAAGTGACAGTGTGAGGCC
ACTGGAGCGTTGATCCTTACAGGCCCAAGAACATTTGTCTGCACTGGGATGAAGTGACAGTGTGAGGCC
AGGGCGGACAGGGTGTGAATAATGCGCACACGACTATTTGGGATGACGAGCGGACCTGTACATGGTGATCAG
TCATTTCAGCCCTCCCGAGTGACAGGAAAGATGGATGTCCTGGAGAGGCAATGCTACGTACGTATACCCGAAAGC
ACACTTTTTCGGTAAATCAGGACATGTAATAAGTTCCTCCATGAATAGATATGGTTACCTCACCATAGCCCTT
GAGGTTGCCCTTCTCTTTGATTGTGAATATATATTTAAAGTAGATGACAGATATCTCTAAACACCTTATCCGCT
TAAACCCATCATAGATTGTGTACGTGATAGACCCCTTGAATGATGAGCGAAATGTATCAGTCCCGTTTAAATCA
AACCTTTTCAGCCTAGCACAGTCAGAAATACACCAACCCCATTTCTAAGGTAGTACTAAATATGAATACAGCCTAAA
TGCAATCGCTATATGATCCCATAAAGAACCAACCTTTCAGATCTCGTTTTCGCTGCGGAAGAGCTAGCTCTAC
CATGGTCTCAATTATAGTGGAGCGTTTAGTCTCGTTTAAAGCTAGCTACTTATTAAGGACAAACATGTACATG
GGCTTACTTGTAGAGGATAGGATCCCGGCTTCTTCACTCTCGAGGAGTTGTCTACACGTGCGCTCCATGTCA
TAAGCCGGTACTCGACGTTGTGTAACCGTACCCAGACCCCTGTTGATAGCGTTGAGAAAGGCCCTATATTTGAA
TTTCCAAATCTCAGCTTTACGAAGATATGCCATGGTGGAGGTTAGTAACCGATGATGATCGTGTGACGATGA
GATGACACCGTGCCCAATCCCTGTTCAAATGCCAAGACCCGCCCTCCACCATGTAAAGCATCCGTGCGCCGAC
GTTGAATTGTGCAATGCGGAGATCATAAAGCGGCCACACTTCCAGTCGGTACTGGATGGGTGCGGTGGCC
ATACTGTGTTTCCATTGCGTGGTCTGTTACTGCGACGCAGATTTCTGTAGGCAAGGCGCAGGCTCTCT
TCTGAGGTAGAAAACACCCCATATTAATCTGAATTC

FIG 5

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1 2 3 4 5 6 7 8 9 10 11 12 13 14



FIG._6

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15 16 17 18 19 20 21 22 23 24 25 26 27 28

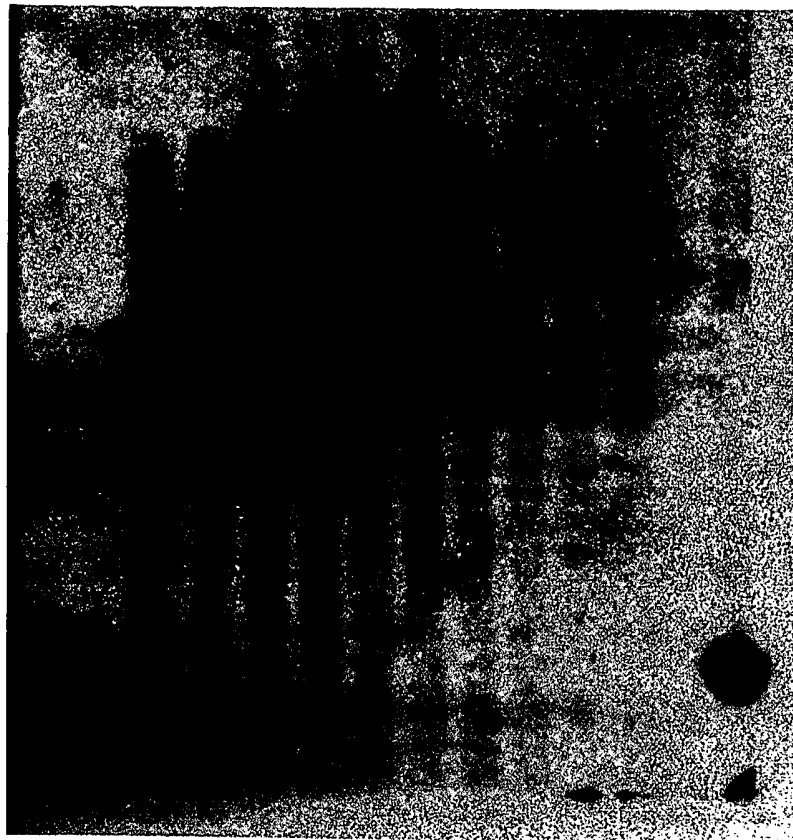


FIG._7